

Fiscal Year 2024: International Journals							
No.	BL	Author	Title	Source	Quartile 2022	IF2022	Field Res.
1	BL1.1W: MXT	Adpakpang, K., Ponchai, P., Pukdeejorhor, L., Faungnawakij, K. and Bureekaew, S.	Confined Space of Nickel-Triazole Metal-Organic Framework Responsible for High Product Selectivity and Enantiospecific Yield of Lactic Acid Converted from Sugar in Water-Based System	Bulletin of the Chemical Society of Japan 97 (2024): uoae016	Q1	4	Chemistry
2	BL1.1W: MXT	Boonmark, S., Ponchai, P., Adpakpang, K., Wannapaiboon, S., Thongratkaew, S., Faungnawakij, K. and Bureekaew, S.	Valorizing Natural-Abundant Glucose to Lactic Acid using a MOF-808 Catalyst under Green Hydrothermal Conditions	Chemical Communications 60 (2024): 4890-4893	Q1	4.9	Chemistry
3	BL1.1W: MXT	Bunpang, K., Singkammo, S., Cann, D. P. and Raengthon, N.	Titanate-Based High-Entropy Perovskite Oxides Relaxor Ferroelectrics	Scientfc Reports 14 (2024): 6017	Q1	4.6	Materials Science and Engineering
4	BL1.1W: MXT	Chankhanittha, T., Watcharakitti, J., Piyavarakorn, V., Johnson, B., Bushby, R. J., Chuaicham, C., Sasaki, K., Nijpanich, S., Nakajima, H. Chanlek, N. and Nanan, S.	ZnO/ZnS Photocatalyst from Thermal Treatment of ZnS: Influence of Calcination Temperature on Development of Heterojunction Structure and Photocatalytic Performance	Journal of Physics and Chemistry of Solids 179 (2023): 111393	Q2	4	Materials Science and Engineering
5	BL1.1W: MXT	Guayjarernpanishk, W. and Sampanpanish, P.	Efficiency of Sodium Phytate in the Remediation of As, Mn, and Cu Contamination in Acid Mine Drainage using Water Hyacinth	Heliyon 10 (Feb 2024): e26590	Q1	4	Environmental Science
6	BL1.1W: MXT	Husain, H., Adi, W. A., Subaer, S., Taryana, Y., Setiawan, A. Putri, S. E., Klyusubun, W. and Wannapaiboon, S.	Effect of Calcination Temperature on Structure Evolution of Hematite Nanoparticles	Physica Scripta 99 (2024): 065974	Q2	2.9	Materials Science and Engineering
7	BL1.1W: MXT	Kaeosamut, N., Chaichana, P., Watwiangkham, A., Suthirakun, S., Wannapaiboon, S., Sammawipawekul, N., Chimupala, Y. and Yimklan, S.	Synergistic Induction of Solvent and Ligand-Substitution in Single Crystal to Single-Crystal Transformations toward a MOF with Photocatalytic Dye Degradation	Inorganic Chemistry 62 (2023): 19908-19921	Q1	4.6	Chemistry
8	BL1.1W: MXT	Khamsanga, S., Khampuanbut, A., Kheawhom, S., Limphirat, W., Uyama, H. and Pattananuwat, P.	Defect Engineered Ni Doped MnCO2O4 Spinel Acts as Effective Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries	ChemCatChem 6 (2024): e202301446	Q1	4.5	Chemistry
9	BL1.1W: MXT	Khampuanbut, A., Kheawhom, S., Kao-ian, W., Limphirat, W., Uyama, H. and Pattananuwat, P.	Unveiling the Potential of a g-C3N4/BiOBr/Bi2O2CO3 Ternary Heterojunction Photocatalyst for Rechargeable Zinc-Air Battery: Visible-Light-Driven Photo-Assisted Charging for Bifunctional ORR and OER at the Air Cathode	Journal of Power Sources 612 (Aug 2024): 234795	Q1	9.2	Chemistry
10	BL1.1W: MXT	Manyum, P., Rittisit, W., Wantana, N., Ruangtawee, Y., Srisittipokakun, N., Rujirawat, S., Kamonsuangkasem, K., Yimnirun, R., Prasatkhetragarn, A., Phongs, A., Intachai, N., Kothan, S., Kim, H. J. and Kaewkhao, J.	Green Development of Samarium Borosilicate Glasses Doped Silica Gel Waste for Stable Orange Colored Visible Host Material	Materials Today Communications 38 (Mar 2024): 108025	Q2	3.8	Materials Science and Engineering
11	BL1.1W: MXT	Manyum, P., Rittisit, W., Wantana, N., Ruangtawee, Y., Rujirawat, S., Kamonsuangkasem, K., Yimnirun, R., Prasatkhetragarn, A., Intachai, N., Kothan, S., Kim, H. J. and Kaewkhao, J.	Structural and Luminescence Properties of Transparent Borate Glass Co-Doped with Gd 3+/Pr3+ for Photonics Application	Materials Today Communications 37 (Dec 2023): 107078	Q2	3.8	Materials Science and Engineering
12	BL1.1W: MXT	Manyum, P., Rittisit, W., Wantana, N., Ruangtawee, Y., Rachniyom, S., Rujirawat, S., Kamonsuangkasem, K., Yimnirun, R., Prasatkhetragarn, A., Intachai, N., Kothan, S., Kim, H. J. and Kaewkhao, J.	Synthesis of Eco-Friendly Borosilicate Glass with Eu3+ Dopants: Harnessing Recovered Silica Gel Waste for Reddish-Orange Emission Materials	Radiation Physics and Chemistry 222 (sep 2024): 111838	Q2	2.9	Materials Science and Engineering
13	BL1.1W: MXT	Ngeontae, W., Ponlakhet, K., Phetduang, S., Phongsanam, N., Nijpanich, S., Phongsraphang, T. and Ngamdee, K.	A Hybrid Catalyst-Triggered Cascade Reaction for Cholesterol Detection using a Smartphone-Based Miniature Fluorescent Apparatus	Food Chemistry 449 (Aug 2024): 1369116	Q1	8.8	Chemistry
14	BL1.1W: MXT	Phongsanam, N., Phetduang, S., Ponlakhet, K., Phongsraphang, T., Nijpanich, S., Sriphan, C., Khammanthoon, S., Loilome, W., Suwannaruang, T., Ren, X. K. and Ngeontae W	A Fluorescence Assay Mediated Peroxidase-Like Activity of Magnetic Nanoparticles for Dopamine Detection in Human Blood Serum with a Smartphone-Based Portable Device	Dyes and Pigments 220 (Dec 2023): 111729	Q1	4.5	Materials Science and Engineering
15	BL1.1W: MXT	Piyanuch, P., Santatiwongchai, J., Impeng, S., Khaikate, O., Kamkaew, A., Wannapaiboon, S. and Chansaenpak, K.	Through Bond Energy Transfer (TBET)-Based Chemosensor with Large Stokes Shift for Colorimetric and Fluorogenic Determination of Fe3+ in Aqueous System and Intracellular Imaging Application	Journal of Molecular Liquids 399 (Apr 2024): 124363	Q1	6	Chemistry
16	BL1.1W: MXT	Pokwitidkul, S., Chaleawlert-umpon, S., Treewiriyakitja, P., Kamonsuangkasem, K., Wannapaiboon, S. and Tungtrongpaibroj, J.	Fabrication of HVOF Sprayed 80Ni20Cr/nano-Y2O3 and Nano ZrO2 Nanocomposite Coatings to Enhance High-Temperature Degradation Resistance in CO-CO2 Atmospheres	Surface & Coatings Technology 479 (Mar 2024): 130519	Q1	5.4	Materials Science and Engineering
17	BL1.1W: MXT	Punwong, P., Englong, A., Marchant, R., Jirapinyakul, A., Suttiwong, A., Chirawatkul, P., Chotikarn, P., Pumijumnong, N., Yuttithum, M., Maprasop, P. and Promchoo, W.	A Multi-Proxy Reconstruction of the Late Holocene Vegetation Dynamics in Krabi Mangroves, Thailand Andaman Sea	Quaternary Science Advances 13 (Jan 2024): 100133	Q1	4.5	Environmental Science
18	BL1.1W: MXT	Rittisit, W., Manyum, P., Wantana, N., Ruangtawee, Y., Rujirawat, S., Kamonsuangkasem, K., Yimnirun, R., Prasatkhetragarn, A., Kothan, S., Kim, H. J. and Kaewkhao, J.	Synthesis and Characterization of Eco-Friendly, Stable Green-Emitting Tb3+-Doped Borosilicate Glasses using Waste Silica Gel	Journal of Non-Crystalline Solids 638 (Aug 2024): 123045	Q2	3.5	Materials Science and Engineering
19	BL1.1W: MXT	Sammawipaweeikul, N., Kaeosamut, N., Autthawong, T., Watwiangkham, A., Suthirakun, S., Wannapaiboon, S., Mahamai, N., Sarakonsri, T., Chimupal, Y. and Yimklan, S.	Isostructural Dual-Ligand-Based MOFs with Different Metal Centers in Response to Diverse Capacity Lithium-Ion Battery Anode	Chemical Engineering Journal 482 (Feb 2024): 148904	Q1	15.1	Materials Science and Engineering
20	BL1.1W: MXT	Silapasom, W., Kao-ian, W., Wannapaiboon, S., Opchoei, M. and Kheawhom, S.	Enhancing Zinc-Ion Batteries: PEDOT-MnO2 Cathodes for Superior Stability and Capacity	Radiation Physics and Chemistry	Q2	2.9	Materials Science and Engineering
21	BL1.1W: MXT	Somsongkul, V., Chirawatkul, P., Duffort, V., Mountadir, S., Capoen, E., Vannier, R. N. and Kongmark, C.	Single-Step One-Pot Synthesis of NiCo2O4/Molybdate Nanocomposites for Flexible Supercapacitor Electrodes	Physica Status Solidi (a)	Q2	2	Materials Science and Engineering
22	BL1.1W: MXT	Subsanguan, T., Jungcharoen, P., Khondee, N., Buachan, P., Abeyrathne, B. P., Nuengchamnong, N., Pranudta, A., Wannapaiboon, S. and Luepromchai, E.	Copper and Chromium Removal from Industrial Sludge by a Biosurfactant-Based Washing Agent and Subsequent Recovery by Iron Oxide Nanoparticles	Scientific Reports 13 (2023): 18603	Q1	4.6	Environmental Science
23	BL1.1W: MXT	Suetrong, N., Kanjanaboos, P., Yaemphutthong, S., Suesuwan, A., Chansaenpak, K., Wannapaiboon, S., Kalnaowakul, P., Chuanopparat, N., Hanlumyuang, Y. and Wattanathana, W.	Crystallographic, Thermal, and Solid-State Photoluminescent Investigations of a Di-Benzoate Ester Modified Benzoxazine Dimer Derivative	Structural Chemistry	Q3	1.7	Chemistry

No.	BL	Author	Title	Source	Quartile 2022	IF2022	Field Res.
24	BL1.1W: MXT	Sunon, P., Rattanaumpa, T., Phakhunthod, K., Kaewket, K., Sawatmuenwai, P., <u>Wannapaiboon, S.</u> , Siritanon, T. and Ngamchuea, K.	Copper Nitroprusside-Based Electrochemical Sensor for Detection of Tryptophan	Journal of Analysis and Testing 7 (2023): 405-415	Q1	4.3	Chemistry
25	BL1.1W: MXT	Sunon. P., Ngokpho. B., Kaewket, K., <u>Wannapaiboon, S.</u> and Ngamchuea, K.	Copper(II) Phthalocyanine as an Electrocatalytic Electrode for Cathodic Detection of Urinary Tryptophan	Analyst 149 (May 2024): 3041-3051	Q1	4.2	Chemistry
26	BL1.1W: MXT	Tangsritakul, J., Wichittanakom, C. and <u>Saiyasombat, C.</u>	Composition-Driven Phase Coexistence and Functional properties of the (1-x)BZT-(x)BCT Ceramics Near the Phase Convergence Region	Journal of Metals, Materials and Minerals 34 (2024): 1798	Q3	0.95	Materials Science and Engineering
27	BL1.1W: MXT	Tangsritakul, J., Wichittanakom, C. and <u>Saiyasombat, C.</u>	Temperature-Dependent Synchrotron XRD Study and Electrical properties of the (1-x)BZT-(x)BCT Lead-Free Piezoceramics	Radiation Physics and Chemistry 222 (Sep 2024): 111798	Q2	2.9	Materials Science and Engineering
28	BL1.1W: MXT	Thengthong, W., Sakkaravej, S., Wongkokua, W., <u>Saiyasombat, C.</u> and Monarumit, N.	The Blue Color Mechanism on Sapphires from Different Gem Deposits before and after Heating under Oxidizing Atmosphere	Journal of Physics Communications 7 (2023): 125003	Q3	1.2	Earth Science, Archeology and Gemology
29	BL1.1W: MXT	Tongpeng, S., <u>Wannapaiboon, S.</u> , <u>Janphuang, P.</u> and Jiansirisomboon, S.	Effects of La Doping on Local Structure of Hafnium Oxide Studied by X-Ray Absorption Spectroscopy	Integrated Ferr0electrics 238 (2023): 125-135	Q4	0.7	Materials Science and Engineering
30	BL1.1W: MXT	Tongpeng, S., <u>Wannapaiboon, S.</u> , <u>Amonpattaratkit, P.</u> , <u>Janphuang, P.</u> , <u>Pattanakul, R.</u> and Jiansirisomboon, S.	Effects of La-Doped HfO2 Films on Dielectric Properties by Sol-Gel Method	Integrated Ferr0electrics 239 (2023): 30-42	Q4	0.7	Surface, Interface and Thin Films
31	BL1.1W: MXT	Wantala, K., Klangwichian, W., Suwannaruang, T., Praphatsaraphiwat, S., Taksungnern, R., <u>Chirawatkul, P.</u> , Kaewluan, S. and Shivaraju, H. P.	In Situ Hydro-Deoxygenation onto Nickel-Doped HZSM-5 Zeolite Catalyst for Upgrading Pyrolytic Oil	Environmental Science and Pollution Research 30 (2023): 117829-117845	Q1	5.8	Environmental Science
32	BL1.2: XTM	Buatip, N., Munthala, D., Amonpattaratkit, P., <u>Pakawanit, P.</u> , Hu, X., Jongpinit, W., <u>Janphuang, P.</u> , Wan, C., Bowen, C. and Pojprapai, S.	Piezo-Tribo-Electric Nanogenerator based on BCZT/MCNTs/PDMS Piezoelectric Composite for Compressive Energy Harvesting	Materials Research Bulletin 173 (May 2024): 112686	Q1	5.4	Micro and Nanotechnology 173 (May 2024): 112686
33	BL1.2: XTM	Chatan, W., Khunwong, C., Kupittayanant, S., Kerdasuknirund, S., <u>Rojviriya, C.</u> and Promprom, W.	Dioscorea alata L. Tubers Ethanol Extract Improves Insulin Resistance and Estrogen Defectively in Type 2 Diabetic Ovariectomized Rats	Chaing Mai Journal of Science 50 (2023): 1-18	Q4	0.4	Medical Applications
34	BL1.2: XTM	Chinnakorn, A., Soi-Ngoen, Y., Weeranantanapan, O., <u>Pakawanit, P.</u> , Maensiri, S., Srisom, K., <u>Janphuang, P.</u> , Radacsi, N. and Nuansing, W.	Fabrication of 3D Polycaprolactone Macrostructures by 3D Electrospinning	ACS Biomaterials Science & Engineering	Q1	5.8	Materials Science and Engineering
35	BL1.2: XTM	Hajra, S., Padhan, A. M., Panigrahi, B. M., <u>Pakawanit, P.</u> , Jaglic, Z., Vittayakorn, N., Mishra, Y. K., Lee, S. and Kim, H. J.	Unleashing the Potential of Morphotropic Phase Boundary Based Hybrid Triboelectric–Piezoelectric Nanogenerator	Journal of Materiomics 10 (Jul 2024): 792-802	Q1	9.4	Materials Science and Engineering
36	BL1.2: XTM	Khrongchaiyaphum, F., Wantana, N., Kansirin, S., <u>Pakawanit, P.</u> , Vittayakorn, N., Kothan, S., Chanthima, N., Kim, H. J. and Kaewkhao, J.	Eu3+ Doped Na2O-Gd2O3-BaO-B2O3-P2O5 Glasses for X-Ray Scintillator Application	Optik 292 (Nov 2023); 171355	Q2	3.1	Materials Science and Engineering
37	BL1.2: XTM	Khrongchaiyaphum, F., Wantana, N., Kaewnuam, E., <u>Pakawanit, P.</u> , Phoovasawat, C., Vittayakorn, N., Chanthima, N., Phongsa, A., Intachai, N., Kothan, S., Kim, H. J. and Kaewkhao, J.	Novel Tb3+ Doped Borophosphate Glass Scintillator for X-ray Imaging	Radiation Physics and Chemistry	Q2	2.9	Physics
38	BL1.2: XTM	Khongtong, S., Srivaro, S. and Phatchan, S.	Transforming Oil Palm Trunk Waste into High-Performance Lightweight Materials	Industrial Crops & Products 215 (Sep 2024): 118639	Q1	5.9	Food and Agricultural Science
39	BL1.2: XTM	Kruangkum, T., Jaiboon, K., <u>Pakawanit, P.</u> , Saetan, J., Pudgerd, A., <u>Wannapaiboon, S.</u> , Chotwiwatthanakun, C., Cummins, S. F., Sobhon, P. and Vanichviriyakit, R.	Anatomical and Molecular Insights into the Antennal Gland of the Giant Freshwater Prawn Macrobrachium Rosenbergii	Cell and Tissue Research	Q1	3.6	Biological and Life Science
40	BL1.2: XTM	Intachai, N., Kothan, S., Wantana, N., Kaewjaeng, S., <u>Pakawanit, P.</u> , Vittayakorn, N., Kanjanaboos, P., Phuphathanaphong, N., Kim, H. J. and Kaewkhao, J.	Eu2O3 Doped Silicoborate Glasses for Scintillation Material Application: Luminescence Ability and X-Ray Imaging	Optik 294 (Dec 2023): 171439	Q2	3.1	Materials Science and Engineering
41	BL1.2: XTM	Jia-Ni, L., Yun-Ming, L., Cheng-Yong, H., Wei-Hong, T., Wei Ken, P., <u>Pakawanit, P.</u> , Hoe-Woon, T., Yong-Jie, H., Shee-Ween, O. and Wan-En, O.	Unveiling Physico-Mechanical and Acoustical Characteristics of Fly Ash Geopolymers through the Synergistic Impact of Density and Porosity	Journal of Building Engineering 91 (Aug 2024); 109684	Q1	6.4	Materials Science and Engineering
42	BL1.2: XTM	Noisak. J., Ieamviteevanich, P., Charoonsuk, T., <u>Pakawanit, P.</u> , Pinpru, N., Vittayakorn, W., Maluangnont, T., Seeharaj, P., Bongkarn, T., Chiu, T. W. and Vittayakorn, N.	The Role of γ-C2H5NO2 as a New Transient Liquid Phase in Cold Sintering Process of BaTiO3 Composites	Journal of Advanced Ceramics	Q1	16.9	Materials Science and Engineering
43	BL1.2: XTM	Ntarisa, A. V., Saha, S., Quang, N. D., Cheewasukhanont, W., Wantana, N., Anjum, F., <u>Pakawanit, P.</u> , Phoovasawat, C., Kim, H. J, Intachai, N., Kothan, S. and Kaewkhao, J.	Luminescence properties of Tb3+ -Doped Sodium Phosphate Glasses for Green Laser and X-ray Imaging Application	Radiation Physics and Chemistry 222 (Sep 2024): 111852	Q2	2.9	Physics
44	BL1.2: XTM	Payungkulanon, K., Tungjai, M., Chanthima, N., Sarumaha, C. S., Wantana, N., <u>Pakawanit, P.</u> , Phoovasawat, C., <u>Chanlek, N.</u> , <u>Busayaporn, W.</u> , Kothan, S., Kaewkhao, J.	Luminescence Properties of Cerium-Doped Li2O–Gd2O3 –ZrO2–P2O5 Glasses for Scintillator Application	Radiation Physics and Chemistry	Q2	2.9	Materials Science and Engineering
45	BL1.2: XTM	Pongampai, S., <u>Pakawanit, P.</u> , Charoonsuk, T., Hajra, S., Kim, H. J. and Vittayakorn, N.	Design and Optimization of Miura-Origami-Inspired Structure for High-Performance Self-Charging Hybrid Nanogenerator	Journal of Science: Advanced Materials and Devices 8 (Dec 2023): 100618	Q1	8	Materials Science and Engineering
46	BL1.2: XTM	Senarat, S., <u>Rojviriya, C.</u> , Sarunyakasittrn, K., Charoentreeraboon, J., Pichayakorn, W. and Phaechamud, T.	Moxifloxacin HCl-Incorporated Aqueous-Induced Nitrocellulose-Based In Situ Gel for Periodontal Pocket Delivery	Gels 9 (2023): 572	Q2	4.6	Medical Applications
47	BL1.2: XTM	Shee-Ween, O., Cheng-Yong, H., Yun-Ming, L., Li-Ngee, H., Wei-Hao, L., Abdullah, M. M. A. B., <u>Pakawanit, P.</u> , Wei-Ken, P., Yong-Jie, H., Jia-Ni, L., De-Wei, G. and Mei-Ju, L.	Physico-Mechanical and Microstructural Evolution of Sintered Pressed Geopolymer: Dual Effects of Aging Period and Sintering Temperature	Construction and Building Materials 438 (Aug 2024): 137242	Q1	6.141 (V	Materials Science and Engineering
48	BL1.2: XTM	Sirisathitkul, C.	Advancements in Characterization of Ancient Potteries from Southeast Asia: A Review of Analytical Techniques	Makara Journal of Science 28 (2024): 33-39	Q3	1.13	Earth Science, Archeology and Gemology
49	BL1.2: XTM	Sonsomboonsuk, S., Junyusen, T., Moolkaew, P., Junyusen, P., Treeamnuk, T., Taengsopha, P., Chatchavanthatri, N., <u>Nawong, S.</u> and <u>Pakawanit, P.</u>	Effects of Cooking Methods on the Physicochemical, Textural and Microstructural Properties of Hot Salt Puffed Germinated Brown Rice	Journal of Agriculture and Food Research 15 (Mar 2024): 101001	Q1	3.8	Food and Agricultural Science
50	BL1.2: XTM	Sriphan, S., Worathat, S., Pharino, U., <u>Chanlek, N.</u> , <u>Pakawanit, P.</u> , Choodam, K., Kanjanaboos, P., Maluangnont, T. and Vittayakorn, N.	Highly Flexible Tribovoltaic Nanogenerator Based-on P-N Junction Interface: Comparative Study on Output Dependency Dominated by Photovoltaic Effect in Freestanding-Mode	Advanced Functional Materials 33 (Oct 2023): 2305106	Q1	19	Materials Science and Engineering

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51	BL1.2: XTM	Sriphan, S., Pharino, U., <u>Pakawanit, P.</u> , Bongkarn, T., Vittayakorn, W. and Vittayakorn, N.	Simple Method for Enhancing Performance of the Bacterial Cellulose-Based Triboelectric Nanogenerator by Adding Conductive Interlayer	Integrated Ferr0electrics 238 (2023): 1-12	Q4	0.7	Micro and Nanotechnology
52	BL1.2: XTM	Sriphan, S., Worathat, S., <u>Pakawanit, P.</u> , Hajra, S., Kim, J. and Vittayakorn, N.	Tribovoltaic Performance of the Schottky Contact between Metal and PZT Ceramic	Ceramics International	Q1	5.2	Materials Science and Engineering
53	BL1.2: XTM	Suktep, N., Pongampai, S., <u>Pakawanit, P.</u> , Noisak, J., Bongkarn, T., Charoonsuk, T. and Vittayakorn, N.	Silk Fibroin/Amino Acid Hybrid Organic Piezoelectric Triboelectric Nanogene	Integrated Ferr0electrics 238 (2023): 101-114	Q4	0.7	Materials Science and Engineering
54	BL1.2: XTM	Suttiruengwong, S., Konthong, S., Pivsa-Art, S., Plukchaihan, P., Meesuwan, P., Wanthong, M., Panpradist, N., Kurien, R. A., <u>Pakawanit, P.</u> and Sriamornsak, P.	Fabrication and Characterization of Porous Pectin-Based Aerogels for Drug Delivery	Carbohydrate Polymer Technologies and Applications 7 (Jun 2024): 100499	Q1	5.5	Polymers
55	BL1.2: XTM	Thongsri, O., Thaitalay, P., Srisuwan, S., Khophai, S., Suksaweang, S., <u>Rojviriya, C.</u> , Panpisutd, P., Patntirapong, S., Gough, J. and Rattanachan, S.T.	Enhanced Remineralisation Ability and Antibacterial properties of Sol-Gel Glass Ionomer Cement Modified by Fluoride Containing Strontium-Based Bioactive Glass or Strontium-Containing Fluorapatite	Dental Materials 40 (Apr 2024): 716-727	Q1	ISI	Materials Science and Engineering
56	BL1.2: XTM	Valiyaveetil-SobhanRaj, S., Gluchowski,P., López-Aranguren, P., Aguesse, F., Sampathkumar, R., Thompson, T., <u>Rojviriya, C.</u> , Manalastas Jr, W., Srinivasan, M. and Casas-Cabanas, M.	High-Pressure Low-Temperature Densification of NASICON-Based LATP Electrolytes for Solid-State Lithium Batteries	Materialia 33 (Mar 2024): 101999	Q1	3.4	Materials Science and Engineering
57	BL1.2: XTM	Wan-En, O., Yun-Ming, L., Cheng-Yong, H., Abdullah, M. M. A. B., Ngee, H. L., <u>Pakawanit, P.</u> , Ken, P. W., Khalid, M. S., Razi, H. M., Lee, W. H., Jin, T. S., Shee-Ween, O. and Yong-Jie, H.	Acid-Resistance of One-Part Geopolymers: Sodium Aluminate and Carbonate as Alternative Activators to Conventional Sodium Metasilicate and Hydroxide	Construction and Building Materials 404 (Nov 2023): 133264	Q1	7.4	Materials Science and Engineering
58	BL1.2: XTM	Ukasi, S., Jutapukti, P., Ninthub, C., Pinpru, N., <u>Pakawanit, P.</u> , Vittayakorn, W., Pongampai, S., Vittayakorn, N. and Charoonsuk, T.	Gamma Glycine Enhances Efficiency of Organic Hybrid Piezoelectric Triboelectric Nanogenerators	Nano Energy 119 (Jan 2024): 109045	Q1	17.6	Micro and Nanotechnology
59	BL1.2: XTM	Worathat, S., Pharino, U., <u>Pakawanit, P.</u> , <u>Rattanachata, A.</u> , Muanghlua, R., Hajra, S., Kim, H. J., Sriphan, S. and Vittayakorn, N.	Frictional Heat-Assisted Performance Enhancement in Dynamic Schottky Contact of Al/Ag2Se-Based Tribovoltaic Nanogenerator	Journal of Materiomics	Q1	9.4	Materials Science and Engineering
60	BL1.2: XTM	<u>Yonchai, C.</u> , <u>Kidkhunthod, P.</u> , <u>Siriroj, S.</u> , <u>Padchasri, J.</u> , <u>Sonsupap, S.</u> , <u>Nijpanich, S.</u> , <u>Pakawanit, P.</u> , <u>Chanlek, N.</u> , <u>Maensiri, S.</u> , <u>Smith, S. M.</u>	Customized Electrospun Multilayer Composite Polymer Electrolytes: PEO-PAN-NbO2 Nanofiber Membrane for Enhancing the Performance of Lithium-Ion Batteries	Materialia 35 (Jun 2024): 102114	Q1	3.4	Materials Science and Engineering
61	BL1.2: XTM	Yong-Jie, H., Cheng-Yong, H., Yun-Ming, L., Abdullah, M. M. A. B., Yeng-Seng,L., Wei-Hao, L., <u>Pakawanit, P.</u> , Ern-Hun, K. and Shee-Ween, O.	Microwave-Absorbing Building Materials: Assessing Thickness and Antenna Separation in Fly Ash-Ladle Furnace Slag One-Part Geopolymer	Journal of Building Engineering 87 (Jun 2024): 109096	Q1	6.4	Materials Science and Engineering
62	BL1.2: XTM	Yong-Jie, H., Cheng-Yong, H., Yun-Ming, L., Abdullah, M. M. A. B., Yeng-Seng,L., Wei-Hao, L., <u>Pakawanit, P.</u> , Shee-Ween, O., Hoe-Woon, T. and Cheng-Hsuan, H.	Microwave Absorption Function on a Novel One-Part Binary Geopolymer: Influence of Frequency, Ageing and Mix Design	Construction and Building Materials 427 (May 2024): 136264	Q1	7.4	Materials Science and Engineering
63	BL1.2: XTM	Yoopensuk, W., Suppanucroa, N., Pimoei, J., Kao-Ian, W., <u>Pakawanit, P.</u> , Rukkachat, K., Wu, H. L., Kheawhom, S. and Somwangthanaroj, A.	Optimizing Ionic Conductivity and Ion Selectivity in Zinc-Polyiodide Flow Batteries with Composite Polyamide-Porous Separators	Journal of Energy Storage 86 (May 2024): 111362	Q1	9.4	Materials Science and Engineering
64	BL1.3W: SAXS	Boyetey, M. J. B., Sukyai, P., <u>Kamonsutthipaijit, N.</u> , <u>Nijpanich, S.</u> and <u>Chanlek, N.</u>	Fabrication and Characterization of a Polydopamine-Modified Bacterial Cellulose and Sugarcane Filter Cake-Derived Hydroxyapatite Composite Scaffold	ACS Omega 8 (2023): 43295-43303	Q1	4.1	Food and Agricultural Science
65	BL1.3W: SAXS	Ermalita, N. E. A., Chusna, N. M., Latifah, E., Kurniawan, R., <u>Soontaranon, S.</u> and Sunaryono, S.	Enhanced Electrochemical Performance of PANI/PVP/Mn0.30Fe2.70/TiO2 Nanocomposite Thin Film: Impact of PANI Composition	Materials Research Innovations	Q3	2.8	Surface, Interface and Thin Films
66	BL1.3W: SAXS	Gianvincenzo, P. D., Leyes, M. F., Boonkam, K., Puentes, A. F., Reyes, S. G., Nardi, A. N., Olivieri, A., Pummarin, S., <u>Kamonsutthipaijit, N.</u> , Amenitsch, H., Ritacco, H., D'Abramo, M., Ortore, M. G., Boonla, . And Moya, S. E.	Supramolecular Citrate Poly Allylamine Hydrochloride Nanoparticles for Citrate Delivery and Calcium Oxalate Nanocrystal Dissolution	Journal of Colloid and Interface Science 669 (sep 2024): 667-678	Q1	9.9	Medical Applications
67	BL1.3W: SAXS	Hayeemasae, N., <u>Soontaranon, S.</u> and Masa, A.	Comparative Investigation of Nano-Sized Silica and Micrometer-Sized Calcium Carbonate on Structure and Properties of Natural Rubber Composites	Polymers 16 (2024): 1051	Q1	5	Polymers
68	BL1.3W: SAXS	Hayeemasae, N., <u>Soontaranon, S.</u> and Masa, A.	Structure and Properties of Resole Resin Crosslinked Vulcanizates of Natural Rubber Grafted with Polymethylmethacrylate	Express Polymer Letters 18 (2024): 546–558	Q2	3.3	Polymers
69	BL1.3W: SAXS	Kanmalar, M., Kamal, R., Sani, S. F. A., Pathmanathan, D., Said, N. A. B. M., Paramanantham, Y., Jamil, A. H. A., Mun, K. S., Kuppusamy, S., Almugren, K. S., Almajid, H. F. and Bradley, D. A.	Spectroscopic Diagnosis and Metabolite Characterization of Cisplatin Resistance Regulated by FDFT1 in Bladder Cancer Tissue	Applied Radiation and Isotopes 210 (Aug 2024): 111372	Q3	1.6	Biological and Life Science
70	BL1.3W: SAXS	Keeratiburana, T. Siangwengwang, N., Somphunga, W., Fu, T. and Blennow, A.	Ultrasound-Assisted Annealing Treatment to Improve Physicochemical and Digestive Properties of Banana Flour	The Journal of the Science of Food and Agriculture	Q1	4.1	Food and Agricultural Science
71	BL1.3W: SAXS	Mahendi, N. F., Chusna, N. M., Latifah, E., <u>Soontaranon, S.</u> and Sunaryono, S.	Impact of ZnO Nanoparticles on Mn0.5Fe2.5O4@C/ZnO-DOX Nanocomposites as Antibacterial Agents and Drug Loading Materials	Advanced Composite Materials	Q2	2.9	Materials Science and Engineering
72	BL1.3W: SAXS	Muflikhah, Suparno, N., Lbs, W. Z., Prihatiningsih, M. C., <u>Soontaranon, S.</u> , Mulyawan, A. and Patriati, A.	The Impact of reaction time on the hierarchical structure of mesoporous silica synthesized via modified stöber method	Journal of Porous Materials 31 (2024): 31 (2024): 969-977	Q2	2.6	Materials Science and Engineering
73	BL1.3W: SAXS	Quan, V. M., Torgbo, S., <u>Kamonsutthipaijit, N.</u> and Sukyai, P.	In Situ Preparation of Bacterial Cellulose/Hydroxyapatite Scaffold in Colloidal Culture Media Containing Gum Tragacanth	Cellulose 31 (2024): 1787-1800	Q1	5.7	Biological and Life Science
74	BL1.3W: SAXS	Seetaha, S., <u>Kamonsutthipaijit, N.</u> , Yagi-Utsumi, M., Seako, Y., Yamaguchi, T., Hannongbua, S., Kato, K. and Choowongkomon, K.	Biophysical Characterization of p51 and p66 Monomers of HIV-1 Reverse Transcriptase with Their Inhibitors	The Protein Journal 42 (2023): 741-752	Q1	3	Medical Applications
75	BL1.3W: SAXS	Somsura, R., Kamkajon, K., Chaimongkolnukul, K., Chantip, S., Teerapornpuntakit, J., Wongdee, K., <u>Kamonsutthipaijit, N.</u> , Tangtrongsup, S., Panupinthu, N., Tiyasatkulkovit, W. and Charoenphandhu, N.	Tissue-Specific Expression of Senescence Biomarkers in Spontaneously Hypertensive Rats: Evidence of Premature Aging in Hypertension	PeerJ 11 (2023): e16300 DOI 10.7717/peerj.16300	Q1	3.06	Biological and Life Science
76	BL1.3W: SAXS	Torgbo, S., Sukyai, P., Sukatta, U., Kamonsutthipaijit, N., Beaumont, M. and Rosenau, T.	Integrating Cellulose Microfibrils and Ellagitannins from Rambutan Peel with Gelatin for Production of Synergistic Biobased Hydrogels	Biomacromolecule	Q1	6.2	Biological and Life Science

No.	BL	Author	Title	Source	Quartile 2022	IF2022	Field Res.
77	BL2.2: TRXAS	Gopalakrishnan, M., Kao-ian, W., Rittiruum, M., Praserthdam, S., Praserthdam, P., <u>Limphirat, W.</u> , Nguyen, M. T. Yonezawa, T. and Kheawhom, S.	3D Hierarchical MOF-Derived Defect-Rich NiFe Spinel Ferrite as a Highly Efficient Electrocatalyst for Oxygen Redox Reactions in Zinc–Air Batteries	ACS Applied Materials & Interfaces 16 (2024): 11537-11551	Q1	9.5	Chemistry
78	BL2.2: TRXAS	Jirarungsatian, C., Tuitemwong, P., Phung-on, I., Pooarporn, Y. and Wachiralurpan, S.	Magnetic Properties and Electron Oxidation State Transition of Immunomagnetic Nanoparticles Specifically Captured with the Target Bacteria	Materials Research Express 11 (2024): 015004	Q2	2.27	Micro and Nanotechnology/ Bio
79	BL2.2: TRXAS	Kanchanakanho, P., Jansoda, I., Kenyotha, K., Krachuamram, S., Siri Wong, K., <u>Poo-arporn, Y.</u> and Chanapatttharapol, K. C.	Catalytic activity of Two-Dimensional Cobalt-ZIF Catalyst for NaBH4 Hydrolysis	Microporous and Mesoporous Materials 363 (Jan 2024): 112805	Q1	5.2	Chemistry
80	BL2.2: TRXAS	Kenyotha, K., Kidkhunthod, P., Poo-arporn, Y. and Chanapatttharapol, K. C.	Ceria-Supported Ni Catalyst with High Catalytic Activity, Selectivity and Stability for CO2 Conversion to CH4 by Hydrogenation Reaction Investigated by X-Ray Absorption Spectroscopy	Journal of Physics and Chemistry of Solids 190 (Jul 2024): 112009	Q2	4	Chemistry
81	BL2.2: TRXAS	Khamsanga, S., Khampuanbut, A., Kheawhom, S., <u>Limphirat, W.</u> , Uyama, H. and Pattananuwat, P.	Defect Engineered Ni Doped MnCO2O4 Spinel Acts as Effective Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries	ChemCatChem 6 (2024): e202301446	Q1	4.5	Chemistry
82	BL2.2: TRXAS	Kittisabhorn, A., Ahmed, I., Ratchahat, S., Chaiwat, W., Koo-amornpattana, W., Klysubun, W., <u>Poo-arporn, Y.</u> , <u>Limphirat, W.</u> , Khemthong, P., Assabumrungrat, S. and Srifa, A.	Construction of Ni–Re Supported on Hydrotalcite-Derived MgAl Catalysts for Promoting the Ring Hydrogenation of Furfural into Tetrahydrofurfuryl Alcohol in Water	ChemCatChem	Q1	4.5	Chemistry
83	BL2.2: TRXAS	Laohana, P., <u>Limphirat, W.</u> , <u>Srisom, K.</u> , <u>Janphuang , P.</u> , Meevasana, W. and Saenrang , W.	Influence of Oxygen on Electrical Conductance and Local Structural properties of BiFeO3 Thin Films	Applied Physics Letters 124 (Jun 2024): 241601	Q1	4	Materials Science and Engineering
84	BL2.2: TRXAS	Prasanseang, W., Choojun, K., <u>Poo-arporn, Y.</u> , Huang, A. L., Lin, Y. C., Chen, E., Lee, H. H., Chung, P. W. and Sooknoi, T.	Tuning Cu+ Species/Brønsted Acids of Copper Phyllosilicate by K+Doping for Selective Hydrogenation of Methyl Palmitate to Hexadecanol	Journal of Catalysis 428 (Dec 2023): 115115	Q1	7.3	Materials Science and Engineering
85	BL2.2: TRXAS	Yamchumporn, P., Boonin, K., Triamnak, N., Sareein, T., Singsoong, K., Seetawan, T., <u>Limphirat, W.</u> , <u>Chanlek, N.</u> and Kaewkhao, J.	In-Situ X-Ray Absorption Near Edge Structure Spectroscopy Study and Thermoelectric Properties of 30Li2O: 3MoO3: 60B2O3: 7CuO Glass	Radiation Physics and Chemistry	Q2	2.9	Materials Science and Engineering
86	BL3.1: XPS	Azarian, M. H., Junyusen, T. and Sutapun, W.	Biogenic Vaterite Calcium Carbonate-Silver/Poly(Vinyl Alcohol) Film for Wound Dressing	ACS Omega 9 (2023): 955-969	Q1	4.1	Surface, Interface and Thin Films
87	BL3.1: XPS	Azarian, M. H., <u>Nijpanich, S.</u> , <u>Chanlek, N.</u> and Sutapun, W.	Probing Capping Mechanisms and Polymer Matrix Loading of Biogenic Vaterite CaCO3–Ag Hybrid through X-ray Photoelectron Spectroscopy (XPS)	RSC Advances 14 (2024): 14624-24639	Q2	3.9	Materials Science and Engineering
88	BL3.1: XPS	Azarian, M. H., Junyusen, T. and Sutapun, W.	Tailoring Microstructure of Superabsorbent Film for Active Food Packaging using Carboxy Methyl Cellulose andBiogenic Vaterite CaCO3–Ag Hybrid Microspheres	Journal of Food Engineering 369 (May 2024): 111938	Q1	5.5	Food and Agricultural Science
89	BL3.1: XPS	Boyetey, M. J. B., Sukyai, P., <u>Kamonsutthipaijit, N.</u> , <u>Nijpanich, S.</u> and <u>Chanlek, N.</u>	Fabrication and Characterization of a Polydopamine-Modified Bacterial Cellulose and Sugarcane Filter Cake-Derived Hydroxyapatite Composite Scaffold	ACS Omega 8 (2023): 43295-43303	Q1	4.1	Food and Agricultural Science
90	BL3.1: XPS	Chankhanittha, T., Watcharakitti, J., Piyavarakorn, V., Johnson, B., Bushby, R. J., Chuaicham, C., Sasaki, K., <u>Nijpanich, S.</u> , <u>Nakajima, H.</u> , <u>Chanlek, N.</u> and Nanan, S.	ZnO/ZnS Photocatalyst from Thermal Treatment of ZnS: Influence of Calcination Temperature on Development of Heterojunction Structure and Photocatalytic Performance	Journal of Physics and Chemistry of Solids 179 (2023): 111393	Q2	4	Materials Science and Engineering
91	BL3.1: XPS	Jantachum, P., Phokha, S., Hunpratub, S. <u>Chanlek, N.</u> and Utara, S.	Improved Cure Characteristics and Mechanical properties of an Epoxidized Natural Rubber Filled with Cerium Oxide Nanoparticles: Influence of Epoxide Levels and Filler Loading	Journal of Applied Polymer Science 141 (2024): e54969	Q2	3	Materials Science and Engineering
92	BL3.1: XPS	Jarucha, J., Sareein, T., Ruangtawee, Y., Meejitpaisan, P., Kim, H. J., Intachai, N., Kothan, S., <u>Chanlek, N.</u> and Kaewkhao, J.	1.06 μm NIR emission of Nd3+–embedded in mixed alkali borate glasses for lasing application	Radiation Physics and Chemistry	Q2	2.9	Materials Science and Engineering
93	BL3.1: XPS	Le, T. K. T., Nguyen, H. T. D., Kongparakul, S., Zhang, H., Guan, G., <u>Chanlek, N.</u> , An, T. N. M., Tran, T. T. V. and Samart, C.	Efficient Co-Cu/MS Catalyst from the Sequential Adsorption and Carbonization of Melamine Foam for the Selective Oxidation of 5-Hydroxymethylfurfural (HMF)	ChemistrySelect 8 (2023): e202302926	Q2	2.109	Chemistry
94	BL3.1: XPS	Meetam, P., Phonlakan, K., <u>Nijpanich, S.</u> and Budsombat, S.	Chitosan-Grafted Hydrogels for Heavy Metal Ion Adsorption and Catalytic Reduction of Nitroaromatic Pollutants and Dyes	International Journal of Biological Macromolecules 255 (Jan 2024): 128261	Q1	8.2	Biological and Life Science
95	BL3.1: XPS	Mingmuang, Y., <u>Chanlek, N.</u> , Takesada, M., Swatsitang, E. and Thongbai, P.	Pioneering Dielectric Materials of Sn-doped Nb0.025Ti0.975O2 Ceramics with Excellent Temperature and Humidity Stability for Advanced Ceramic Capacitors	RSC Advances 14 (2024): 7631-7639	Q2	3.9	Materials Science and Engineering
96	BL3.1: XPS	Nernprom, K., Sanetuntikul, J., Saejio, A., Pitipuech, N., Wichianwat, K., <u>Chanlek, N.</u> , Poompipatpong, C., Chanunpanich, N. and Ketpang, K.	Water Hyacinth Root Derived Hybrid Metal Oxides/Nitrogen Doped Porous Carbon as an Efficient Non-Precious Metal Oxygen Reduction Reaction Electrocatalyst in Alkaline Media	International Journal of Hydrogen Energy 50 (Jan 2024): 1549-1558	Q1	7.2	Chemistry
97	BL3.1: XPS	Ngeontae, W., Ponlakhet, K., Phetduang, S., Phongsanam, N., <u>Nijpanich, S.</u> , Phongsraphang, T. and Ngamdee, K.	A Hybrid Catalyst-Triggered Cascade Reaction for Cholesterol Detection using a Smartphone-Based Miniature Fluorescent Apparatus	Food Chemistry 449 (Aug 2024): 1369116	Q1	8.8	Chemistry
98	BL3.1: XPS	Nugroho, D., Thinthasit, A., Khoris, I. M., Siriputthaiwan, P., Benchawattananon, R. and Chanthai, S.	L-histidine Doped CDs from Zingiber Montanum using Hydrothermal Method to Enhance Its Antimicrobial Activity and Imply for Latent Fingerprint Detection	Arabian Journal of Chemistry 17 (Mar 2024): 105602	Q1	6	Chemistry
99	BL3.1: XPS	Osakoo, N., Rakngam, I., Keawkumay, C., Deekamwong, K., Seejandee, P., <u>Chanlek, N.</u> , <u>Poo-arporn, Y.</u> , Prayoonpokarach, S. and Wittayakun, J.	Hierarchical Fluoride-Containing Zeolite Y Supported Ru for Catalytic Conversion of Xylose to Xylitol	Materials Chemistry and Physics 319 (Jun 2024); 129334	Q1	4.6	Chemistry
100	BL3.1: XPS	Payungkulan, K., Tungjai, M., Chanthima, N., Sarumaha, C. S., Wantana, N., <u>Pakawanit, P.</u> , Phoovasawat, C., <u>Chanlek, N.</u> , <u>Busayaporn, W.</u> , Kothan, S., Kaewkhao, J.	Luminescence Properties of Cerium-Doped Li2O–Gd2O3 –ZrO2–P2O5 Glasses for Scintillator Application	Radiation Physics and Chemistry	Q2	2.9	Materials Science and Engineering
101	BL3.1: XPS	Panyathip, R., Sucharitakul, S., Hongsith, K., Bumrunsan, W., Yarangsi, V., Phaduangdhitidhada, S., <u>Chanlek, N.</u> and Choopun, S.	Surface Modification of SnO2 Electron Transporting Layer by Graphene Quantum Dots for Performance and Stability Improvement of Perovskite Solar Cells	Ceramics International	Q1	5.2	Surface, Interface and Thin Films
102	BL3.1: XPS	Phanthasri, J., Saelee, T., Sosa, N., Youngjan, S., Samart, N., Rittiruum, M., Khajondetchairit, P., Chomchin, S., Chankhanittha, T., Prasitnok, K., Kiatphuengporn, S., Chareonpanich, M., <u>Chanlek, N.</u> , <u>Nijpanich, S.</u> , <u>Kidkhunthod, P.</u> , Praserthdam, P., Praserthdam, S. and Khemthong, P.	Integrated Experimental and Theoretical Studies for Unravelling CO2 Capture of Dual Function CeO2-CaO Bio-based Sorbents	Journal of Environmental Chemical Engineering 12 ((Apr 2024): 112412	Q1	7.7	Environmental Science

No.	BL	Author	Title	Source	Quartile 2022	IF2022	Field Res.
103	BL3.1: XPS	Phongsanam, N., Phetduang, S., Ponlakhet, K., Phongsraphang, T., <u>Nijpanich, S.</u> , Sriphan, C., Khammanthoon, S., Loilome, W., Suwannaruang, T., Ren, X. K. and Ngeontae W	A Fluorescence Assay Mediated Peroxidase-Like Activity of Magnetic Nanoparticles for Dopamine Detection in Human Blood Serum with a Smartphone-Based Portable Device	Dyes and Pigments 220 (Dec 2023): 111729	Q1	4.5	Materials Science and Engineering
104	BL3.1: XPS	Rakngam, I., Khemthong, P., Osakoo, N., Rungnim, C., Youngjan, S., Thongratkaew, S., Pengsawang, A., Rungtaweeworanit, B., Faungnawakij, K., <u>Kidkhunthod, P.</u> , <u>Chanlek, N.</u> , Khunphonoi, R., Loiha, S., Prasitnok, K. and Wittayakun, J.	Unraveling Structural and Acidic Properties of Al-SBA-15-supported Metal Phosphates: Assessment for Glucose Dehydration	ChemPlusChem 88 (Nov 2023): e202300326	Q1	3.4	Chemistry
105	BL3.1: XPS	Siriya, P., <u>Chanlek, N.</u> and Thongbai, P.	Giant Dielectric properties and Temperature Stability of Triple-Doped AlxIn0.05– xTa0.05Ti0.9O2 Ceramics	Ceramics International 50 (Jun 2024): 18977-18985	Q1	5.2	Materials Science and Engineering
106	BL3.1: XPS	Sriphan, S., Worathat, S., Pharino, U., <u>Chanlek, N.</u> , <u>Pakawanit, P.</u> , Choodam, K., Kanjanaboos, P., Maluangnont, T. and Vittayakorn, N.	Highly Flexible Tribovoltaic Nanogenerator Based-on P-N Junction Interface: Comparative Study on Output Dependency Dominated by Photovoltaic Effect in Freestanding-Mode	Advanced Functional Materials 33 (Oct 2023): 2305106	Q1	19	Materials Science and Engineering
107	BL3.1: XPS	Swatsitang, E., Nonglek, S., Karaphun, A., Putjuso, S., <u>Nijpanich, S.</u> and Putjuso, T.	Synthesis, Characterization and Enhancing Efficiency of Composite CuO2/CuO Nanostructures Deposited on Porous Activated Carbon for Supercapacitors Electrode Applications	Surfaces and Interfaces 42 (Nov 2023): 103501	Q1	6.2	Materials Science and Engineering
108	BL3.1: XPS	Tharat, B., Ngamwongwan, L., Seehamongkol, T., Rungtaweeworanit, B., Nonkumwong, J., Suthirakun, S., Faungnawakij, K., <u>Chanlek, N.</u> , Plucksacholatar, A., Nimsaila, W., Prommina, C. and Junkaew, A.	Hydroxy and Surface Oxygen Effects on 5-hydroxymethylfurfural Oxidation to 2,5-Furandicarboxylic Acid on β-MnO2: DFT, Microkinetic and Experiment Studies	Nanoscale 16 (Jan 2024): 678-690	Q1	6.7	Chemistry
109	BL3.1: XPS	Thaveemas, P., Phouthavong, V., Hagio, T., Dechtrirat, D., Chuenchom, L., <u>Nijpanich, S.</u> , <u>Chanlek, N.</u> , Park, J. H. and Ichino, R.	Ti3AlC2 MAX Phase: A Surprising Candidate Material for Highly Selective and Efficient Gold Recovery from Strong Acid Solutions	Separation and Purification Technology 343 (Sep 2024): 127113	Q1	8.6	Materials Science and Engineering
110	BL3.1: XPS	Thongyong, N., Sreejivungsa, K., Kawee, P., <u>Chanlek, N.</u> , Takesada, M. and Thongbai, P.	Excellent Temperature–Humidity Stability in (Tb1/2Ta1/2)xTi1-xO2 Ceramics with Colossal Permittivity and Low–Loss Tangent	Journal of Alloys and Compounds 989 (Jun 2024): 174341	Q1	6.2	Materials Science and Engineering
111	BL3.1: XPS	Triosod, S., Phakkhawan, A., Phumuen, P., Wanabut, W., <u>Chanlek, N.</u> , Kumnorkaew, P., Klangtakai, P., Srepusharawoot, P., Jarernboon, W., Puttharugs, C., Thongnum, A., Chompoosor, A., Pimanpang, S., Ruttanapun, C. and Amornkitbamrung, V.	Hydrothermal Transforming Phase Structure and Chemical Composition of V2O5 for Elevating Electrochemical Property of Zinc Ion Batteries	Applied Surface Science 654 (May 2024): 159468	Q1	6.7	Chemistry
112	BL3.1: XPS	Tuichai, W., Karaphun, A., Phrompet, C., <u>Chanlek, N.</u> , Swatsitang, E., Sriwong, C. and Ruttanapun, C.	Synthesis and Electrochemical properties of Activated Lignite Carbons-Reduced Graphene Oxide Nanocomposites Symmetric Supercapacitors	Journal of Electroanalytical Chemistry 967 (Aug 2024): 118446	Q1	4.5	Chemistry
113	BL3.1: XPS	Uten, S., Boonbanjong, P., Prueksathaporn, Y., Treerattrakoon, K., Sathirapongsasuti, N., <u>Chanlek, N.</u> , Pinitsoontorn, S., Luksirikul, P. and Japrun, D.	Magnetic Graphene Oxide Nanocomposites for Selective miRNA Separation and Recovery	ACS Omega 2 (Jan 2024): 2263-2271	Q1	6.9	Materials Science and Engineering
114	BL3.1: XPS	Wiboon, M., Leangtanom, P., Jaruwongrungrsee, K., <u>Chanlek, N.</u> , Wisitsoraat, A., Yordsri, V., Kongpark, P., Pookmanee, P. and Kruefu, V.	Ultraefficient Ammonia Gas Sensors Based on Pt-Loaded WO3 Nanobars	Physica Status Solidi (A) Applications and Materials Science	Q2	2.8	Materials Science and Engineering
115	BL3.1: XPS	Wongprasod, S., Tanapongpisit, N., Laohana, P., Nguyen, T. M. H., Van, H. Q., Kim, S., Srikam, S., Sonsupap, S., <u>Chanlek, N.</u> , Horprathum, M., Khamkongkaeo, A., Maensiri, S., Meevasana, W., Bark, C. W. and Saenrang, W.	Porous Electrospun Carbon Nanofibers Bearing TiO2 Hollow Nanospheres for Supercapacitor Electrodes	ACS Applied Nano Materials 7 (2024): 6712-6721	Q1	5.9	Materials Science and Engineering
116	BL3.1: XPS	Yamchumporn, P., Boonin, K., Triamnak, N., Sareein, T., Singsoog, K., Seetawan, T., <u>Limphirat, W.</u> , <u>Chanlek, N.</u> and Kaewkhao, J.	In-Situ X-Ray Absorption Near Edge Structure Spectroscopy Study and Thermoelectric Properties of 30Li2O: 3MoO3: 60B2O3: 7CuO Glass	Radiation Physics and Chemistry	Q2	2.9	Materials Science and Engineering
117	BL3.1: XPS	<u>Yonchai, C.</u> , <u>Kidkhunthod, P.</u> , <u>Siriroj, S.</u> , <u>Padchasri, J.</u> , Sonsupap, S., <u>Nijpanich, S.</u> , <u>Pakawanit, P.</u> , <u>Chanlek, N.</u> , Maensiri, S., Smith, S. M.	Customized Electrospun Multilayer Composite Polymer Electrolytes: PEO-PAN-NbO2 Nanofiber Membrane for Enhancing the Performance of Lithium-Ion Batteries	Materialia 35 (Jun 2024): 102114	Q1	3.4	Materials Science and Engineering
118	BL3.2U: PES/PEEM	Anuar, N. A., Nor, N. H. M., Chia, M. Y., Goh, B. T., Chiu, W. S., Aspanut, Z., Awang, R., <u>Nakajima, H.</u> , <u>Tunmee, S.</u> , Sookhakian, M. and Alias, Y.	Improved Photoelectrochemical Performance of Tungsten-Catalyzed Graphene Nanoplatelet Electrodes Prepared by Hot-Wire Chemical Vapor Deposition at Low Substrate Temperatures	Thin Solid Films 797 (May 2024): 140330	Q2	2.1	Materials Science and Engineering
119	BL3.2U: PES/PEEM	Azad, F., Supasai, T., Yaro, A. A., Soe, K. T., Thongprong, N., Ketsombun, E., Kayunkid, N., <u>Supruangnet, R.</u> , <u>Chanlek, N.</u> , Chapon, P. and Rujisamphan, N.	Enhancing Perovskite Thin Films with Butylammonium Iodide-Lead-Tetrahydrofuran: Surface Healing and 2D Formation in Annealing-Free Single-Crystal Films for Solar Cell Applications	ACS Materials Letters 6 (2024): 1264-1276	Q1	11.4	Surface, Interface and Thin Films
120	BL3.2U: PES/PEEM	Borwornpornmetee, N., Sittimart, P., <u>Phatthanakun, R.</u> , <u>Nakajima, H.</u> , Paosawatanyong, B., Yoshitake, T. and Promros, N.	Physical Feature Exploration of Nanocrystalline FeSi2 Surface with Argon Plasma Etching Under Varying Power	Vacuum 218 (Dec 2023): 112588	Q1	4	Surface, Interface and Thin Films
121	BL3.2U: PES/PEEM	Chaikeeree, T., Kasayapanand, N., Mungkung, N., Phaengam, W., Lertvanithphol, T., Dhanasiwawong, K., <u>Nakajima, H.</u> , Gitgeatpong, G., Prathumsit, J., Chittinan, D., Arunrungrusmi, S., Triamnak, N. and Horprathum, M.	Deposition of Alternative Plasmonic ZrHfN Thin Films via Closed-Field Dual-Cathode DC Unbalanced Magnetron Sputtering for Enhanced SEF Substrate Applications	Optical Materials 150 (Apr 2024): 115166	Q1	3.9	Surface, Interface and Thin Films
122	BL3.2U: PES/PEEM	Faridawati, F., Sudarsono, Ristiani, D., <u>Nakajima, H.</u> , Yudoyono, G. and Darminto	Optical Band Structure with Enhanced Plasmonic Effect of SiO2/rGO Bilayer Deposited by Spray Pyrolysis	Materials Chemistry and Physics 317 (Apr 2024):129078	Q1	4.6	Materials Science and Engineering
123	BL3.2U: PES/PEEM	Li, M., Chananonwathorn, C., Pan, N., Limwichean, S., Deng, Z., Horprathum, M., Chang, J., Wang, S., <u>Nakajima, H.</u> , Klamchuen, A., Li, L. and Meng, G.	Prompt Electronic Discrimination of Gas Molecules by Self-Heating Temperature Modulation	ACS Sensors 9 (2024): 206-216	Q1	8.9	Materials Science and Engineering
124	BL3.2U: PES/PEEM	Nor, N. H. M., Anuar, N. A., Taliq, N. A., Abdullah, W. A. T. W., <u>Kittimanapun, K.</u> , <u>Nakajima, H.</u> , <u>Chanlek, N.</u> , Yahya, M. F. Z. R. and Goh, B. T.	Effects of High-Energy Electron Beam Irradiation on the Structure, Composition and Morphological Properties of Graphene Nanoplatelet Films	Sains Malaysiana 52 (2023): 2955-2970	Q2	1	Surface, Interface and Thin Films
125	BL3.2U: PES/PEEM	Passatorntaschakorn, W., Khampa, W., Musikpan, W., Bhoomanee, C., Ngamjarujana, A., Rimjaem, S., Gardchareon, A., Rodwihok, C., Kim, H. S., Khambunkoed, N., <u>Supruangnet, R.</u> , <u>Nakajima, H.</u> , Srathongsian, L., Kanjanaboos, P., Intaniwet, A., Kaewprajak, A., Kumnorkaew, P., Goubard, F., Ruankham, P. and Wongratanaphisan, D.	A Novel Carbon Electrode for Up-Scaling Flexible Perovskite Solar Cells	Applied Materials Today 34 (Oct 2023): 101895	Q1	8.3	Materials Science and Engineering

No.	BL	Author	Title	Source	Quartile 2022	IF2022	Field Res.
126	BL3.2U: PES/PEEM	Pengpad, A., <u>Rattanachata, A.</u> , <u>Rattanasuporn, S.</u> , Jenpiyapong, W., <u>Nakajima, H.</u> , Kumnorkaew, P., Jarernboon, W. and Amornkitbamrung, V.	The Impact of Bi-Doped on MAPb(IxBr1–x)3 Mixed Halide Perovskite Films	Physica Scripta 99 (2024): 065937	Q2	2.9	Materials Science and Engineering
127	BL3.2U: PES/PEEM	Polin, S., Laohana, P., Kullapapinyokol, J., Jindata, W., Musikajaroen, S., Rasritat, A., <u>Nakajima, H.</u> , Saenrang, W., Maensiri, S., Eom, C. and Meevasana, W.	Measurement of the Coupling of Magnetism with Electricity or Light Irradiation in BiFeO3 using the Kerr Angle	APL Materials 12 (May 2024): 051104	Q1	6.1	Materials Science and Engineering
128	BL3.2U: PES/PEEM	Priyanto, B., Khambali, I., Ardiani, I. S., Nadiyah, K., Laila, A. Z., Hasani, M. C., Romadhon, B., Asih, R., Cahyono, Y., Triwikantoro and Darminto	Nitrogen-Doped Amorphous Carbon Homojunction from Palmyra Sugar as a Renewable Solar Cell	Journal of Renewable Materials 12 (2024): 57-69	Q2	Scopus 3.7	Materials Science and Engineering
129	BL3.2U: PES/PEEM	Pothaya, S., Poochai, C., Tammanoon, N., Chuminjak,, Y., Kongthong, T., Lomas, T., Sriprachuabwong, C. and Tuantranont, A.	Bamboo-Derived Hard Carbon/Carbon Nanotube Composites as Anode Material for Long-Life Sodium-Ion Batteries with High Charge/Discharge Capacities	Rare Metals 43 (2024): 124-137	Q1	8.8	Materials Science and Engineering
130	BL3.2U: PES/PEEM	Promhuad, P., Sawatmongkhon, B., Theinnoi, K., Wongchang, T., Chollacoop, N., Sukjit, E., Tunmee, S. and Tsolakis, A.	Effect of Metal Oxides (CeO2, ZnO, TiO2, and Al2O3) as the Support for Silver-Supported Catalysts on the Catalytic Oxidation of Diesel Particulate Matter	ACS Omega 9 (2024): 19282-19294	Q1	4.1	Chemistry
131	BL3.2U: PES/PEEM	Rodbuntum, S., Sukgorn, N., <u>Chanlek, N.</u> , <u>Nakajima, H.</u> , Rujisamphan, N., Ruankham, P., Wongratanaphisan, D., Kaewprajak, A. and Kumnorkaew, P.	Dual Interfacial Tin-Oxide Layer with Chloride Salt for High Performance and Durable Perovskite Solar Cells	ACS Applied Energy Materials 6 (2023): 10364-10375	Q1	6.4	Materials Science and Engineering
132	BL3.2U: PES/PEEM	Srathongsian, L., Kaewprajak, A., Naikaew, A., Seriwatanachai, C., Phupathanaphong, N., Inna, A., Chotchuangchutchaval, T., Passatorntaschakorn, W., Kumnorkaew, P., Sahasithiwat, S., Wongratanaphisan, D., Ruankham, P., <u>Supruangnet, R.</u> , <u>Nakajima, H.</u> , Pakawatpanurut, P. and Kanjanaboos, P.	Exploration of Triple Cation Perovskite Landscape via Cs and Br Tuning to Achieve Functional Ultralow-Hysteresis and High-Performance Indoor Perovskite Solar Cell with Low-Cost Carbon-Based Electrode	IScience	Q1	6.107	Materials Science and Engineering
133	BL3.2U: PES/PEEM	Srathongsian, L., Kaewprajak, A., Naikaew, A., Seriwatanachai, C., Phupathanaphong, N., Inna, A., Chotchuangchutchaval, T., Passatorntaschakorn, W., Kumnorkaew, P., Sahasithiwat, S., Wongratanaphisan, D., Ruankham, P., <u>Supruangnet, R.</u> , <u>Nakajima, H.</u> , Pakawatpanurut, P. and Kanjanaboos, P.	Cs and Br Tuning to Achieve Ultralow-Hysteresis and High-Performance Indoor Triple Cation Perovskite Solar Cell with Low-Cost Carbon-Based Electrode	Iscience 27 (Apr 2024): 109306	Q1	5.8	Materials Science and Engineering
134	BL3.2U: PES/PEEM	Sriondee, M., Nammahachak, N., Eknapakul, T., <u>Rattanachata, A.</u> , <u>Euaruksakul, C.</u> , <u>Nakajima, H.</u> , Triamnak, N., Sinthiptharakoon, K., Meevasana, W. and Ratanaphan, S.	How UV irradiation enhances electrical conductance at a grain boundary in SrTiO3	Scripta Materialia 246 (Jun 2024): 116069	Q1	6.2	Materials Science and Engineering
135	BL3.2U: PES/PEEM	Sriondee, Y., Vijitvarasan, P., <u>Rattanachata, A.</u> , <u>Nakajima, H.</u> , Oaew, S. and Cheunkar, S.	Real-Time Kinetic Analysis and Detection of Glycated Hemoglobin A1c using a Quartz Crystal Microbalance-Based Aptasensor	Amalytical Methods 16 (2024): 599	Q2	3.1	Chemistry
136	BL3.2U: PES/PEEM	Thurakitserree, T., <u>Rattanachata, A.</u> , <u>Nakajima, H.</u> , Phothiphiphit, S., Kuimalee, S. and Suknet, P.	Nitrogen-Doped Single-Walled Carbon Nanotubes by Floating-Catalyst CVD Process	Chemical Physics 576 (Jan 2024): 112090	Q2	2.3	Micro and Nanotechnology
137	BL3.2U: PES/PEEM	Waehayee, A., Wangngae, S., Rungruengkit, J., Lerdwiriyanupap, T., Choklap, T., Prachanat, J., Pornnongsan, N., Ruangvittayanon, A., <u>Nakajima, H.</u> , Chankhanittha, T., Butburee, T., Prayoonpokarach, S., Kamkaew, A., Suthirakun, S. and Siritanon, T.	Modulation of the Internal Electric Field in Te-Doped Bi2MoO6 Nanosheets: Implication for the Photocatalytic Degradation of Rhodamine B and Photooxidation of Benzylamine	ACS Applied Nano Materials 7 (2024): 6079-6092	Q1	5.9	Chemistry
138	BL3.2U: PES/PEEM	Watmanee, S., Klinaubol, T., Nganglumpoon, R., Pinthong, P., Serraon, A. C., Chiong III, M. R., Morikawa, Y. and Panpranot, J.	Origin of Surface-Bonded Oxygen on Dendritic Ag Particles towards 3D-Nanocrystalline Carbon Formation During CO2 Electrochemical Reduction Reaction	Chemical Engineering Journal 480 (Jan 2024): 148182	Q1	15.1	Chemistry
139	BL3.2U: PES/PEEM	Worathat, S., Pharino, U., <u>Pakawanit, P.</u> , <u>Rattanachata, A.</u> , Muanghlua, R., Hajra, S., Kim, H. J., Sriphan, S. and Vittayakorn, N.	Frictional Heat-Assisted Performance Enhancement in Dynamic Schottky Contact of Al/Ag2Se-Based Tribovoltaic Nanogenerator	Journal of Materiomics	Q1	9.4	Materials Science and Engineering
140	BL4.1: IR	Jirarungsatian, C., Tuitemwong, P., Phung-on, I., Pooarporn, Y. and Wachiralurpan, S.	Magnetic Properties and Electron Oxidation State Transition of Immunomagnetic Nanoparticles Specifically Captured with the Target Bacteria	Materials Research Express 11 (2024): 015004	Q2	2.27	Micro and Nanotechnology/ Bio
141	BL4.1: IR	Kaimuangpak, K., Rosalina, R., <u>Thumanu, K.</u> and Weerapreeyakul, N.	Macromolecules with Predominant β-Pleated Sheet Proteins in Extracellular Vesicles Released from Raphanus Sativus L. var. Caudatus Alef Microgreens induce DNA Damage-Mediated Apoptosis in HCT116 Colon Cancer Cells	International Journal of Biological Macromolecules 269 (Jun 2024): 132001	Q1	8.2	Medical Applications
142	BL4.1: IR	Nuankaew, S., Boonyuen, N., <u>Thumanu, K.</u> and Pornputtapong, N.	Development of a Machine Learning Model for Systematics of Aspergillus section Nigri using Synchrotron Radiation-Based Fourier Transform Infrared Spectroscopy	Heliyon 10 (Mar 2024): e26812	Q1	4	Materials Science and Engineering
143	BL4.1: IR	Pimchan, T., Tian, F., <u>Thumanu, K.</u> , Rodtong, S. and Yongsawatdigul, J.	Anti-Salmonella Activity of a Novel Peptide, KGGDLGLFEPTL, Derived from Egg Yolk Hydrolysate	Antibiotics 13 (2024): 19	Q1	4.8	Food and Agricultural Science
144	BL4.1: IR	Pongsetkul, J., Saengsuk, N., <u>Siriwong, S.</u> , <u>Thumanu, K.</u> , Yongsawatdigul, J. and Benjakul, S.	A Comprehensive Study of Sous-Vide Cooked Korat Chicken Breast Processed by Various Conditions: Texture, Compositional/Structural Changes, and Consumer Acceptan	Poultry Science 103 (Apr 2024): 103495	Q1	4.4	Food and Agricultural Science
145	BL4.1: IR	Promkhun, K., Suwanvichanee, C., Tanpol, N., Katemala, S., <u>Thumanu, K.</u> , Molee, W., Kubota, S., Uimari, P. and Molee, A.	Effect of Carnosine Synthesis Precursors in the Diet on Jejunal Metabolomic Profiling and Biochemical Compounds in Slow-Growing Korat Chicken	Poultry Science 102 (Dec 2023): 103123	Q1	4.4	Food and Agricultural Science
146	BL4.1: IR	Ratanabunyong, S., Siriwaseree, J., Wanaragthai, P., Krobthong, S., Yingchutrakul, Y., <u>Kuaprasert, B.</u> , Choowongkomon, K. and Aramwit, P.	Exploring the Apoptotic Effects of Sericin on HCT116 Cells through Comprehensive Nanostring Transcriptomics and Proteomics Analysis	Scientfc Reports 14 (2024): 2366	Q1	4.6	Medical Applications
147	BL4.1: IR	Thepbandit, W., Papathoti, N. K., Hoang, N. H., Siriwong, S., Saenpueak, R., Saengchan, C., Laemchiab, K., Kiddeejing, D., Tonpho, K. and Buensanteai, K.	Bio-Synthesis and Characterization of Silver Nanoparticles from Trichoderma Species Against Cassava Root Rot Disease	Scientfc Reports 14 (2024):12535	Q1	4.6	Food and Agricultural Science
148	BL4.1: IR	Wongdee, J., Piromyou, P., Songwattana, P., Greetatorn, T., Boonkerd, N., Teaumroong, N., Giraud, E., Gully, D., Nouwen, N., Kiatponglarp, W., <u>Tanthanuch, W.</u> and Tittabutr, P.	Exploring the Cellular Surface Polysaccharide and Root Nodule Symbiosis Characteristics of the rpoN Mutants of Bradyrhizobium sp. DOA9 using Synchrotron-Based Fourier Transform Infrared Microspectroscopy in Conjunction with X-Ray Absorption Spectroscopy	Microbiology Spectrum 11 (2023): e0194723	Q1	7.171	Food and Agricultural Science
149	BL4.1: IR	Wu, X., Suksawat, F., Phuektes, P., Siriwong, S., Liu, H., Li, W. and Angkititrakul, S.	Flagella Phenotypic Variations of ST34 Type Salmonella Typhimurium and Variants	Foodborne Pathogens and Disease	Q1	2.8	Medical Applications

No.	BL	Author	Title	Source	Quartile 2022	IF2022	Field Res.
150	BL5.2: XAS	Amphon, R., Chankhantha, C., Srimuang, C., Vongsetskul, S., Intarasiri, S. and Shen, A. H.	Changes in Blue Color of Sapphire Compared with Oxidation State Changes	Minerals 14 (2024): 333	Q2	2.5	Earth Science, Archeology and Gemology
151	BL5.2: XAS	Asava-arunotai, M., Htet, T. L., Bansiddhi, A., Lertworasirikul, A., Surawathanawises, K., Muangnapoh, T., Kandasamy , B., Kidkhunthod, P. , Panomsuwan, G. and Jongprateep, O.	3D Printed Sr-Doped TiO2 / Biowaste / Polymeric Structures for Mitigating Dye Contamination in Water	Materialia 36 (Aug 2024): 102139	Q1	3.4	Materials Science and Engineering
152	BL5.2: XAS	Bootchanont, A., Chaosuan, N., Promdee, S., Teeka, J., Kidkhunthod, P. , Yimnirun, R., Sailuam, W., Isran, N., Jiamprasertboon, A., Siritanon, T., Eknapakul, T. and Saisopa, T.	Correlation between Biomedical and Structural properties of Zn/Sr Modified Calcium Phosphates	Biometals	Q1	3.5	Materials Science and Engineering
153	BL5.2: XAS	Butburee, T., Ponchai, J., Khemthong, P., Mano, P., Chakthranont, P., Youngjan, S., Phanthasri, J., Namuangruk, S., Faungnawakij, K., Wang, X., Chen, Y. and Zhang, L.	General Pyrolysis for High-Loading Transition Metal Single Atoms on 2D-Nitro-Oxygeneous Carbon as Efficient ORR Electrocatalysts	ACS Applied Materials & Interfaces 16 (2024): 10227-10237	Q1	9.5	Chemistry
154	BL5.2: XAS	Cahyanto, H., Chen, X., Lam, F. L. Y., Iadrat, P., Wattanakit, C., Kidkhunthod, P. , Singh, V., Brooker, S., Pang, S., Choi, J. and Yip, A. C. K.	Effective Prevention of Palladium Metal Particles Sintering by Histidine Stabilization on Silica Catalyst Support	Advanced Functional Materials	Q1	19	Chemistry
155	BL5.2: XAS	Chaipornchaleram, P., Nunthakitguson, W., Mano, P., Kidkhunthod, P. , Montoya, A., Namuangruk, S. and Wattanakit, C.	Rational Design of Fe Single Sites Supported on Hierarchical Zeolites via Atomic Layer Deposition for Few-Walled Carbon Nanotube Production	ACS Applied Materials & Interfaces	Q1	9.5	Materials Science and Engineering
156	BL5.2: XAS	Chinnakutti, K. K., Treerittiwittaya, W., Gao, H., Tapia-Ruiz, N., Kidkhunthod, P. and Kasemchainan, J.	Solid-State Zn-Ion Batteries using Composite Cellulose Polyethylene Oxide Materials-Illustration of Reaction and Capacity Fading Mechanisms	Polymer 299 (Apr 2024): 126949	Q1	4.6	Materials Science and Engineering
157	BL5.2: XAS	Denprawat, A., Sinwanasarp, K., Kidkhunthod, P. , Laorodphan, N. and Thiemsorn, W.	Structure and Chemical Durability Improvement of Alkali Silicate Glass by Zirconium Dioxide and Erbium Oxide Addition	Journal of Metals, Materials and Minerals 33 (2023): 1624	Q3	0.232	Materials Science and Engineering
158	BL5.2: XAS	Huang, T. F., Zhuang, Y. R., Chang, C. L., Huang, C. L., Lin, W. C., Jiang, Z. C., Ting, L. Y., Mekhemer, I. M. A., Sun, Y. E., Kidkhunthod, P. , Chen, J. L., Huang, Y. C., Hsu, H. K., Tseng, Y. T., Wu, Y. H., Li, B. H., Yang, S. D., Cheng, Y. J. and Chou, H. H.	Indanone-Based Conjugated Polymers Enabling Ultrafast Electron Transfer for Visible Light-Driven Hydrogen Evolution from Water	Journal of Materials Chemistry A 12 (2024): 3633	Q1	11.9	Chemistry
159	BL5.2: XAS	Jutimoosik, J., Yothhuan, S., Kidkhunthod, P. and Bongkarn, T.	Probing the Local Structure of CuO-Doped (Ba0.85Ca0.15)(Ti0.90Zr0.10)O3 Ceramics with XANES Spectroscopy Technique	Integrated Ferr0electrics 239 (2023): 120-125	Q4	0.7	Materials Science and Engineering
160	BL5.2: XAS	Kenyotha, K., Kidkhunthod, P., Poo-arporn, Y. and Chanapatttharapol, K. C.	Ceria-Supported Ni Catalyst with High Catalytic Activity, Selectivity and Stability for CO2 Conversion to CH4 by Hydrogenation Reaction Investigated by X-Ray Absorption Spectroscopy	Journal of Physics and Chemistry of Solids 190 (Jul 2024): 112009	Q2	4	Chemistry
161	BL5.2: XAS	Klinyod, S., Yodsir, N., Nguyen, M. T., Pasom, Z., Assavapanumat, S., Ketkaew, M., Kidkhunthod, P. , Yonezawa, T., Namuangruk, S. and Wattanakit, C.	Unraveling the Electrocatalytic Activity in HMF Oxidation to FDCA by Fine-Tuning the Degree of NiOOH Phase Over Ni Nanoparticles Supported on Graphene Oxide	Small	Q1	13.3	Chemistry
162	BL5.2: XAS	Krachuamram, S., Kidkhunthod, P. , Poo-arporn, Y. and Chanapatttharapol, K. C.	Facile Synthesis Method of Zeolite NaY and Zeolite NaY-Supported Ni Catalyst with High Catalytic Activity for the Conversion of CO2 to CH4	ChemEngineering 8 (2024): 28	Q2	2.5	Chemistry
163	BL5.2: XAS	Kumalayanti, L., Khamhom, W., Chankhunthod, N., Kidkhunthod, P. and Pinitsoontorn, S.	Facile Synthesis of Au–TiO2/Bacterial Cellulose Aerogel Nanocomposites with Enhanced Photocatalytic Degradation of Methylene Blue under UV Irradiation	Radiation Physics and Chemistry 221 (Aug 2024): 111757	Q2	2.9	Materials Science and Engineering
164	BL5.2: XAS	Latief, F., Baqiya, M. A., Kidkhunthod, P. , Fajar, A. and Suasmoro, S.	Local Structure and Defect Analysis of KVO3 Doped BiFeO3–BaTiO3 Ceramics facing Conductivity, Permittivity, and Magnetic Properties	Physica B: Condensed Matter 684 (Jul 2024): 415977	Q2	2.8	Materials Science and Engineering
165	BL5.2: XAS	Meng, L., He, J., Li, S., Zhou, X., Xin, R., Xu, W., Shao, B., Tunmee, S. , Kidkhunthod, P. , Tang, Y., Zhai, W. and Li, L.	Ultrasound-Triggered Surface Reconstruction with Improved Carriers Transfer Kinetics in CdIn2S4 for Solar Water Oxidation	Advanced Functional Materials 34 (Jan 2024): 2308809	Q1	19	Surface, Interface and Thin Films
166	BL5.2: XAS	Motlagh, S. R., Khezri, R., Etesami, M., Mohamad, A. A., Kidkhunthod, P. , Yaakob, M. K., Suttipong, M., Nguyen, M. T., Yonezawa, T., Nootong, K. and Kheawhom, S.	Mitigating Water-Related Challenges in Aqueous Zinc-Ion Batteries through Ether-Water Hybrid Electrolytes	Electrochimica Acta 468 (Nov 2023): 143122	Q1	6.6	Materials Science and Engineering
167	BL5.2: XAS	Nijapai, P., Kidhunthod, P. , Manyam, P. Rujirawat, S. and Yimnirun, R.	Modeling Manganese Lithium Borate-Based Glass using a Combination of X-Ray Absorption Spectroscopy and Computer Simulations	Radiation Physics and Chemistry 221 (Aug 2024): 111735	Q2	2.9	Materials Science and Engineering
168	BL5.2: XAS	Osakoo, N., Rakngam, I., Keawkumay, C., Deekamwong, K., Seejandee, P., Chanlek, N. , Poo-arporn, Y. , Prayoonpokarach, S. and Wittayakun, J.	Hierarchical Fluoride-Containing Zeolite Y Supported Ru for Catalytic Conversion of Xylose to Xylitol	Materials Chemistry and Physics 319 (Jun 2024): 129334	Q1	4.6	Chemistry
169	BL5.2: XAS	Phanthasri, J., Saelee, T., Sosa, N., Youngjan, S., Samart, N., Rittirum, M., Khajondetchairit, P., Chomchin, S., Chankhanittha, T., Prasitnok, K., Kiatphuengporn, S., Chareonpanich, M., Chanlek, N. , Nijpanich, S. , Kidkhunthod, P. , Praserttham, P., Praserttham, S. and Khemthong, P.	Integrated Experimental and Theoretical Studies for Unravelling CO2 Capture of Dual Function CeO2-CaO Bio-based Sorbents	Journal of Environmental Chemical Engineering 12 ((Apr 2024): 112412	Q1	7.7	Environmental Science
170	BL5.2: XAS	Rakngam, I., Khemthong, P., Osakoo, N., Rungnim, C., Youngjan, S., Thongratkaew, S., Pengsawang, A., Rungtaweeworanit, B., Faungnawakij, K., Kidkhunthod, P. , Chanlek, N. , Khunphono, R., Loiha, S., Prasitnok, K. and Wittayakun, J.	Unraveling Structural and Acidic Properties of Al-SBA-15-supported Metal Phosphates: Assessment for Glucose Dehydration	ChemPlusChem 88 (Nov 2023): e202300326	Q1	3.4	Chemistry
171	BL5.2: XAS	Sichumsaeng, T., Chinnakorn, A., Kalawa, O., Padchasri, J., Kidkhunthod, P. and Maensiri, S.	Comparative Structural and Electrochemical Properties of Mixed P2/O'3-Layered Sodium Nickel Manganese Oxide Prepared by Sol–Gel and Electrospinning Methods: Effect of Na Excess Content	International Journal of Minerals, Metallurgy and Materials 30 (2023): 1887-1896	Q1	4.8	Materials Science and Engineering
172	BL5.2: XAS	Siriraj, S. , Padchasri, J. , Montreeuppathum, A. , Sonsupap, S. , Maensiri, S. , Kheawhom, S. and Kidkhunthod, P.	Glass-Sulfur Composite Cathodes: A New Strategy for Improving the Performance of Lithium-Sulfur Batteries	Materials Research Bulletin	Q1	5.4	Materials Science and Engineering
173	BL5.2: XAS	Tamtong, C., Kao-ian, W., Kidkhunthod, P. and Kheawhom, S.	Electrolyte Additives for Reversible Dissolution/Deposition of Mn2p/Mn4p in a Zinc-Manganese Flow Battery	Integrated Ferr0electrics 238 (2023): 216-223	Q4	0.7	Materials Science and Engineering

No.	BL	Author	Title	Source	Quartile 2022	IF2022	Field Res.
174	BL5.2: XAS	Tanjindaprateep, S. P., <u>Kidkhunthod, P.</u> , Pattanasattayavong, P. and Ogawa, M.	Incorporation of Iron(III) into Nanoporous Silica Spheres	Colloids and Surfaces A: Physicochemical and Engineering Aspects 686 (Apr 2024): 133305	Q1	5.2	Micro and Nanotechnology
175	BL5.2: XAS	Thongyong, N., Siriroj, S., Padchasri, J., Chanlek, N., Kheawhom, S. and <u>Kidkhunthod, P.</u>	Effect of Recycled Glass-V2O5 Composite for Stabilizing Cathode Capacity of Lithium-Ion Batteries	Materialia 35 (Jun 2024): 102132	Q1	3.4	Materials Science and Engineering
176	BL5.2: XAS	Wattanachai, P., Soisuwan, S., Boonruam, P., Panpranot, J., <u>Kidkhunthod, P.</u> and Upasen, S.	Kinetics of Catalytic Oxidation of Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid over LaMn1-xNixO3-d Perovskite Oxide	Chemical Engineering Transactions 105 (2023): 319-324	Q3	Scopus 1.032	Chemistry
177	BL5.2: XAS	Wongdee, J., Piromyou, P., Songwattana, P., Greetatorn, T., Boonkerd, N., Teaumroong, N., Giraud, E., Gully, D., Nouwen, N., Kiatpongklarp, W., <u>Tanthanuch, W.</u> and Tittabutr, P.	Exploring the Cellular Surface Polysaccharide and Root Nodule Symbiosis Characteristics of the rpoN Mutants of Bradyrhizobium sp. DOA9 using Synchrotron-Based Fourier Transform Infrared Microspectroscopy in Conjunction with X-Ray Absorption Spectroscopy	Microbiology Spectrum 11 (2023): e0194723	Q1	7.171	Food and Agricultural Science
178	BL6: DXL	Borwornpornmetee, N., Sittimart, P., <u>Phatthanakun, R.</u> , <u>Nakajima, H.</u> , Paosawatyanyong, B., Yoshitake, T. and Promros, N.	Physical Feature Exploration of Nanocrystalline FeSi2 Surface with Argon Plasma Etching Under Varying Power	Vacuum 218 (Dec 2023): 112588	Q1	4	Surface, Interface and Thin Films
179	BL6: DXL	Buatip, N., Munthala, D., <u>Janphuang, P.</u> and Pojprapai, S.	Investigation of Energy Harvesting Performance of BCZT Piezoelectric Ceramics under Low Frequency	Bulletin of Materials Science 47 (2024): 25	Q3	1.8	Materials Science and Engineering
180	BL6: DXL	Monkrathok, J., <u>Janphuang, P.</u> , Suphachiaraphan, S., Kampaengsri, S., Kamkaew, A., Chansaenpak, K., Lisnund, S., Blay, V. and Pinyou, P.	Enhancing Glucose Biosensing with Graphene Oxide and Ferrocene-Modified Linear Poly(ethylenimine)	Biosensors 14 (2024): 161	Q1	5.4	Materials Science and Engineering
181	BL6: DXL	Sonklin, T., Tongpeng, S., Munthala, D., Suksaweang, S., Janphuang, P., Bharti, A., Mathur, A., Avasthi, D. K., Jiansirisomboon, S. and Pojprapai, S.	Development of Gold Nanospikes-Modified Quartz Crystal Microbalance Biosensor for Prostate Specific Antigen Detection	Surfaces and Interfaces 45 (Feb 2024): 103877	Q1	6.2	Surface, Interface and Thin Films
182	BL6: DXL	Sukkasem, T., Nuchitprasittichai, A., Junpirom, S., Pulsawat, N., Khumronrith, P., Photongngam, S. and <u>Janphuang, P.</u>	Role of SiO2 in TiO2/SiO2 Photocatalyst for Hydrogen Peroxide Gas Generation from Air Humidity via Photocatalysis	Journal of Inclusion Phenomena and Macrocyclic Chemistry 104 (2024): 289-305	Q3	2.3	Chemistry
183	BL6: DXL	Tongpeng, S., <u>Wannapaiboon, S.</u> , <u>Janphuang, P.</u> and Jiansirisomboon, S.	Effects of La Doping on Local Structure of Hafnium Oxide Studied by X-Ray Absorption Spectroscopy	Integrated Ferroelectrics 238 (2023): 125-135	Q4	0.7	Materials Science and Engineering
184	BL6: DXL	Tongpeng, S., <u>Wannapaiboon, S.</u> , <u>Amonpattaratkit, P.</u> , <u>Janphuang, P.</u> , <u>Pattanakul, R.</u> and Jiansirisomboon, S.	Effects of La-Doped HfO2 Films on Dielectric Properties by Sol-Gel Method	Integrated Ferroelectrics 239 (2023): 30-42	Q4	0.7	Surface, Interface and Thin Films
185	Micro-XRF	Mohamed, R., Razak, R. A., Abdullah, M. M. R. A., Rahim, S. Z. A., Mortar, N. A. M., Chairapa, J., <u>Tancharakorn, S.</u> , Mydin, M. A. O. and Vizureanu, P.	Elucidation on Alkali Activation of Slag with Various Solid-to-Liquid Ratios via Heat Evolution	Journal of Building Engineering 84 (May 2024): 108639	Q1	6.4	Materials Science and Engineering
186	BL8: XAS	Ausavasukhi, A., Siriphala, T., <u>Limphirat, W.</u> and Nilmourng, S.	Leonardite Humic Acid Activated Carbon/MnO Composite Nanostructures for Supercapacitors	Journal of Metals, Materials and Minerals 34 (Jun 2024): 1932	Q3	0.95	Materials Science and Engineering
187	BL8: XAS	Begildayeva, T., Theerthagiri, J., <u>Limphirat, W.</u> , Min, A., Kheawhom, S. and Choi, M. Y.	Deciphering Indirect Nitrite Reduction to Ammonia in High-Entropy Electrocatalysts Using In Situ Raman and X-ray Absorption Spectroscopies	Small	Q1	13.3	Chemistry
188	BL8: XAS	Buatip, N., Munthala, D., Amonpattaratkit, P., <u>Pakawanit, P.</u> , Hu, X., Jongpinit, W., <u>Janphuang, P.</u> , Wan, C., Bowen, C. and Pojprapai, S.	Piezo-Tribo-Electric Nanogenerator based on BCZT/MCNTs/PDMS Piezoelectric Composite for Compressive Energy Harvesting	Materials Research Bulletin 173 (May 2024): 112686	Q1	5.4	Micro and Nanotechnology 173 (May 2024): 112686
189	BL8: XAS	Eknapakul, T., Jiamprasertboon, A., Amonpattaratkit, P., Pimsawat, A., Daengsakul, S., Tanapongpisit, N., Saenrang, W., Bootchanont, A., Wannapraphai, P., Phetrattanarangsi, T., Boonchuduang, T., Khamkongkaeo, A. and Yimnirun, R.	Unraveling the Structural Complexity of and the Effect of Calcination Temperature on Calcium Phosphates Derived from Oreochromis Niloticus Bones	Heliyon 10 (Apr 2024): e29665	Q1	4	Medical Applications
190	BL8: XAS	Gopalakrishnan, M., Kao-ian, W., Rittirum, M., Praserttham, S., Praserttham, P., <u>Limphirat, W.</u> , Nguyen, M. T. Yonezawa, T. and Kheawhom, S.	3D Hierarchical MOF-Derived Defect-Rich NiFe Spinel Ferrite as a Highly Efficient Electrocatalyst for Oxygen Redox Reactions in Zinc-Air Batteries	ACS Applied Materials & Interfaces 16 (2024): 11537-11551	Q1	9.5	Chemistry
191	BL8: XAS	Gustafsson, J. P., Barbi, F., Braun, S., <u>Klysubun, W.</u> and Borjesson, G.	Where Does All the Phosphorus Go? Mass Balance Modelling of Phosphorus in the Swedish Long-Term Soil Fertility Experiments	Geoderma 440 (Dec 2023): 116727	Q1	6.1	Food and Agricultural Science
192	BL8: XAS	Kaewmala, S., Kamma, N., Aranmala, K., Pipitworrakul, P., Nash, J., <u>Limphirat, W.</u> and Meethong, N.	A Comparative Study of the Structural and Electrochemical Properties of Na3V2(PO4)3/C Cathode Materials for Na-ion Batteries Prepared by Sol-Gel vs. Solid-State Methods	ChemElectroChem (2024): e202300550	Q1	3.89	Materials Science and Engineering
193	BL8: XAS	Kalong, M., Praikaew, W., Ratchahat, S., Chaiwat, W., Koo-amornpattana, W., <u>Klysubun, W.</u> , <u>Limphirat, W.</u> , Assabumrungrat, S. and Srifa, A.	Continuous Furfural Hydrogenolysis into 2-Methylfuran and 2-Methyltetrahydrofuran over Cu/γ-Al2O3 with ReOx and WOx as Catalyst Boosters	Energy & Fuels 38 (2024): 9836-9848	Q1	5.3	Chemistry
194	BL8: XAS	Kerdtoob, S., Chanthasena, P., Rosyidah, A., <u>Limphirat, W.</u> , Penkhrue, W., Ganta, P., Srisakvarangkool, W., Yasawong, M. and Nantapong, N.	Streptomyces Monashensis MSK03-Mediated Synthesis of Gold Nanoparticles: Characterization and Antibacterial Activity	RSC Advances 14 (2024): 4778-4787	Q2	3.9	Chemistry
195	BL8: XAS	Khamsanga, S., Khampuanbut, A., Kheawhom, S., <u>Limphirat, W.</u> , Uyama, H. and Pattananuwat, P.	Defect Engineered Ni Doped MnCO2O4 Spinel Acts as Effective Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries	ChemCatChem 6 (2024): e202301446	Q1	4.5	Chemistry
196	BL8: XAS	Khampuanbut, A., Kheawhom, S., Kao-ian, W., <u>Limphirat, W.</u> , Uyama, H. and Pattananuwat, P.	Unveiling the Potential of a g-C3N4/BiOBr/Bi2O2CO3 Ternary Heterojunction Photocatalyst for Rechargeable Zinc-Air Battery: Visible-Light-Driven Photo-Assisted Charging for Bifunctional ORR and OER at the Air Cathode	Journal of Power Sources 612 (Aug 2024): 234795	Q1	9.2	Chemistry
197	BL8: XAS	Kittisabhorn, A., Ahmed, I., Pornputtipitak, W., Ratchahat, S., Chaiwat, W., Koo-amornpattana, W., <u>Klysubun, W.</u> , <u>Limphirat, W.</u> , Assabumrungrat, S. and Srifa, A.	Constructing Ni-Pt Bimetallic Catalysts for Catalytic Hydrogenation and Rearrangement of Furfural into Cyclopentanone with Insight in H/D Exchange by D2O Labeling	ACS Omega	Q1	4.1	Chemistry
198	BL8: XAS	Kumar, S., Rama, P., Lieu, W. Y., Zhang, C., <u>Busayaporn, W.</u> , Chinnadurai, D., Yang, G., Xing, Z., Li, Y., Abbas, Z., Liu, W. and She, Z. W.	A Bi-Based Artificial Interphase to Achieve Ultra-Long Cycling Life of Al-Metal Anode in Non-Aqueous Electrolyte	Energy Storage Materials 68 (Feb 2024): 103087	Q1	20.4	Materials Science and Engineering
199	BL8: XAS	Mangthong, P., Srisittipokakun, N., Rajaramakrishna, R., Abhiram, J., <u>Busayaporn, W.</u> , Kothan, S. and Kaewkhao, J.	Synchrotron Studies of Ag+ and Dy3+ Ions in Zinc Lanthanum Aluminum Borate Glasses Synthesized Using Novel Microwave Melt-Quenching Technique	Optical Materials 144 (Oct 2023): 114198	Q1	3.9	Materials Science and Engineering

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